

CLAIMS

1. An intellectual building base plate assembling game device comprising a triangular game tray having 28 adjacent slots which is arranged as seven lines, a first line having one slot; a second line having two slots; a third line having third slots, a fourth line having fourth slots; a fifth line having fifth slots, a sixth line having sixth slots, and a seven line having seven slots;

eighteen builing blocks containing the following shapes, wherein

(1) a first building base plate is assembled by four adjacent units; the four units are connected blocks which are divided into two banks; an upper bank has three blocks connected side by side and linearly and a lower bank has one block; the block at the lower bank is aligned and adjacent to one block at an end section of the upper bank;

(2) a second building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has two blocks connected side by side and a lower bank has three blocks connected sides by side; two of the blocks at the lower bank are aligned and adjacent to the blocks at the upper bank;

(3) a third building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has one block and a lower bank has four blocks connected side by side and linearly; the block at the upper bank is aligned and adjacent to one block at an end section of the lower bank;

(4) a fourth building base plate is assembled by five adjacent unit; the five units are connected blocks which are divided into two banks; an upper bank has one block and a lower bank has four blocks connected side by side and linearly; the block at the upper bank is

aligned and adjacent to one block at the lower bank which is not at end sections of the lower bank;

(5) a fifth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; 5 an upper bank has two blocks and a lower bank has three blocks which are connected side by side and linearly; only one of the block at the upper bank is aligned and adjacent to one block at one end section of the lower bank;

(6) a sixth building base plate is assembled by three adjacent 10 units; the three units are connected blocks which are divided into two banks; an upper bank has two blocks and a lower bank has one block; one of the blocks at the upper bank is aligned and adjacent to the block not at the lower bank;

(7) a seventh building base plate is assembled by five adjacent 15 units; the five units are connected blocks which are divided into three banks; an upper bank has three blocks which are connected side by side and linearly; a middle bank has one block, and a lower bank has one block; the block at the middle bank is aligned and adjacent to one block at an end section of the upper bank; the block 20 at the lower bank is aligned and adjacent to the block at the middle bank;

(8) a eighth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into three banks; an upper bank has one block; a middle bank has two 25 blocks which are connected side by side, and a lower bank has two blocks which are connected side by side; the block at the middle bank is aligned and adjacent to one block at the upper bank; only one of the blocks at the lower bank is aligned and adjacent to another block at the middle bank;

(9) a ninth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has two blocks which are not adjacent to one another and a lower bank has three blocks which are connected side by side and linearly; the blocks at the upper bank are aligned and adjacent to
5 respective blocks at the lower bank;

(10) a tenth building base plate is assembled by four adjacent units; the four units are connected blocks which are divided into two banks; an upper bank has two blocks which are connected side by
10 side and a lower bank has two blocks which are connected side by side; only one block at the upper bank is aligned and adjacent to one of the blocks at the lower bank;

(11) a eleventh building base plate is assembled by four adjacent units; the four units are connected blocks which are divided into two
15 banks; an upper bank has one block and a lower bank has three blocks which are connected sides by sides and linearly; the block at the upper bank is aligned and adjacent to one blocks at a middle section of the lower bank;

(12) a twelfth building base plate is assembled by five adjacent
20 units; the five units are blocks and are arranged as a cruciform with four blocks being aligned and adjacent to one block at a center section of the cruciform;

(13) a thirteenth building base plate is assembled by six adjacent units; the six units are connected blocks which are divided into three
25 banks; an upper bank has two blocks which are connected side by side; a middle bank has two blocks which are connected side by side, and a lower bank has two blocks which are connected side by side; only one block at the middle bank is aligned and adjacent to one block of the upper bank; only one of the blocks at the lower bank is

aligned and adjacent to the block at the middle bank, but not colinear to the block at the upper bank;

(14) a fourteenth building base plate is assembled by six adjacent units; the six units are connected blocks which are divided into two banks; an upper bank has two blocks which are connected side by side and a lower bank has four blocks which are connected side by side and linearly; the blocks at the upper bank are aligned and adjacent to two block not at an end section of the lower bank, respectively;

(15) a fifteenth building base plate is assembled by six adjacent units; the six units are blocks; five units of the six units are arranged as a cruciform with four blocks being aligned and adjacent to one block at a center section of the cruciform; and the other unit of the six unit are aligned and adjacent to two units;

(16) a sixteenth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into three banks; an upper bank has one block; a middle bank has two blocks which are connected side by side, and a lower bank has two blocks which are connected side by side; the block at the middle bank is aligned and adjacent to one block of the upper bank; only one of the blocks at the lower bank is aligned and adjacent to the block at the middle bank and is colinear to the block at the upper bank;

(17) a seventh building base plate is assembled by six adjacent units; the seven units are connected blocks which are divided into three banks; an upper bank has one block; a middle bank has two blocks which are connected side by side, and a lower bank has three blocks which are connected side by side and linearly; the block at the middle bank is aligned and adjacent to one block of the upper

bank; two of the blocks at the lower bank are aligned and adjacent to the block at the middle bank, and one block at the end section of the lower bank is aligned and adjacent to the block at the upper bank; and

5 (18) an eighteenth has only one building base plate;

wherein in playing the game, some of the building base plates are accumulated on the triangular game tray so that so as to form an egyptian structure with reduced units on the upper layers.

2. The intellectual building base plate assembling game device as
10 claimed in claim 1, wherein each block has shape selected from one of a square block, a spheric block and a polygon block; the slot of the game tray is a shape selected from one of a tapered slot, an arch slot and a polygonal slot to cooperate with the units.

3. An intellectual building base plate assembling game device comprising:
15 a planar game tray having a concave slot inside a planar game tray;
a fastening element standing on a bottom of the concave slot;
eighteen builing blocks containing the following shapes, wherein

(1) a first building base plate is assembled by four adjacent units;
the four units are connected blocks which are divided into two banks;
20 an upper bank has three blocks connected side by side and linearly
and a lower bank has one block; the block at the lower bank is aligned and adjacent to one block at an end section of the upper bank;

(2) a second building base plate is assembled by five adjacent
units; the five units are connected blocks which are divided into two
25 banks; an upper bank has two blocks connected side by side and a
lower bank has three blocks connected sides by side; two of the
blocks at the lower bank are aligned and adjacent to the blocks at the
upper bank;

(3) a third building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has one block and a lower bank has four blocks connected side by side and linearly; the block at the upper bank is
5 aligned and adjacent to one block at an end section of the lower bank;

(4) a fourth building base plate is assembled by five adjacent unit; the five units are connected blocks which are divided into two banks; an upper bank has one block and a lower bank has four blocks connected side by side and linearly; the block at the upper bank is
10 aligned and adjacent to one block at the lower bank which is not at end sections of the lower bank;

(5) a fifth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has two blocks and a lower bank has three blocks
15 which are connected side by side and linearly; only one of the block at the upper bank is aligned and adjacent to one block at one end section of the lower bank;

(6) a sixth building base plate is assembled by three adjacent units; the three units are connected blocks which are divided into
20 two banks; an upper bank has two blocks and a lower bank has one block; one of the blocks at the upper bank is aligned and adjacent to the block not at the lower bank;

(7) a seventh building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into
25 three banks; an upper bank has three blocks which are connected side by side and linearly; a middle bank has one block, and a lower bank has one block; the block at the middle bank is aligned and adjacent to one block at an end section of the upper bank; the block

at the lower bank is aligned and adjacent to the block at the middle bank;

(8) a eighth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into
5 three banks; an upper bank has one block; a middle bank has two blocks which are connected side by side, and a lower bank has two blocks which are connected side by side; the block at the middle bank is aligned and adjacent to one block at the upper bank; only one
10 of the blocks at the lower bank is aligned and adjacent to another block at the middle bank;

(9) a ninth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into two banks; an upper bank has two blocks which are not adjacent to one another and a lower bank has three blocks which are connected side by side
15 and linearly; the blocks at the upper bank are aligned and adjacent to respective blocks at the lower bank;

(10) a tenth building base plate is assembled by four adjacent units; the four units are connected blocks which are divided into two banks; an upper bank has two blocks which are connected side by
20 side and a lower bank has two blocks which are connected side by side; only one block at the upper bank is aligned and adjacent to one of the blocks at the lower bank;

(11) a eleventh building base plate is assembled by four adjacent units; the four units are connected blocks which are divided into two
25 banks; an upper bank has one block and a lower bank has three blocks which are connected sides by sides and linearly; the block at the upper bank is aligned and adjacent to one blocks at a middle section of the lower bank;

(12) a twelfth building base plate is assembled by five adjacent units; the five units are blocks and are arranged as a cruciform with four blocks being aligned and adjacent to one block at a center section of the cruciform;

5 (13) a thirteenth building base plate is assembled by six adjacent units; the six units are connected blocks which are divided into three banks; an upper bank has two blocks which are connected side by side; a middle bank has two blocks which are connected side by side, and a lower bank has two blocks which are connected side by side;
10 only one block at the middle bank is aligned and adjacent to one block of the upper bank; only one of the blocks at the lower bank is aligned and adjacent to the block at the middle bank, but not colinear to the block at the upper bank;

(14) a fourteenth building base plate is assembled by six adjacent
15 units; the six units are connected blocks which are divided into two banks; an upper bank has two blocks which are connected side by side and a lower bank has four blocks which are connected side by side and linearly; the blocks at the upper bank are aligned and adjacent to two block not at an end section of the lower bank,
20 respectively;

(15) a fifteenth building base plate is assembled by six adjacent units; the six units are blocks; five units of the six units are arranged as a cruciform with four blocks being aligned and adjacent to one block at a center section of the cruciform; and the other unit of the
25 six unit are aligned and adjacent to two units;

(16) a sixteenth building base plate is assembled by five adjacent units; the five units are connected blocks which are divided into three banks; an upper bank has one block; a middle bank has two blocks which are connected side by side, and a lower bank has two

blocks which are connected side by side; the block at the middle bank is aligned and adjacent to one block of the upper bank; only one of the blocks at the lower bank is aligned and adjacent to the block at the middle bank and is colinear to the block at the upper bank;

5 bank;

(17) a seventh building base plate is assembled by six adjacent units; the seven units are connected blocks which are divided into three banks; an upper bank has one block; a middle bank has two blocks which are connected side by side, and a lower bank has three
10 blocks which are connected side by side and linearly; the block at the middle bank is aligned and adjacent to one block of the upper bank; two of the blocks at the lower bank are aligned and adjacent to the block at the middle bank, and one block at the end section of the lower bank is aligned and adjacent to the block at the upper bank;

15 and

(18) an eighteenth has only one building base plate;

wherein after the fastening element positions at least one unit to fix the direction, angle and position of the building base plates, the building base plate is used as a center for sequentially placing the other building base plates into
20 the concave slot until the slot is filled by some selected building base plate.

4. A intellectual building base plate assembling game device as claimed in claim 3, wherein the fastening element is comprised by two to four short standing posts; the short standing posts insert into the concave groove among the units of the building base plates; a positioning space defined by the short
25 standing posts receives the insertion of at least one unit for limiting the direction, angle and position of the building base plate.

5. The intellectual building base plate assembling game device as claimed in claim 3, wherein the section of the short standing post is in an L or a cross shape.

6. The intellectual building base plate assembling game device as claimed in claim 3, wherein the fastening element is at least a supporting post; centers of selected units of selected building base plates are formed with respective through holes; after inserting the supporting post into one of the through hole,
5 the supporting post limits the direction, angle and position of the building base plate.

7. The intellectual building base plate assembling game device as claimed in claim 3, wherein the through hole of the unit of the building base plate is in a cross shape while the supporting post is in a T or cross shape.

10